

FIG. 1

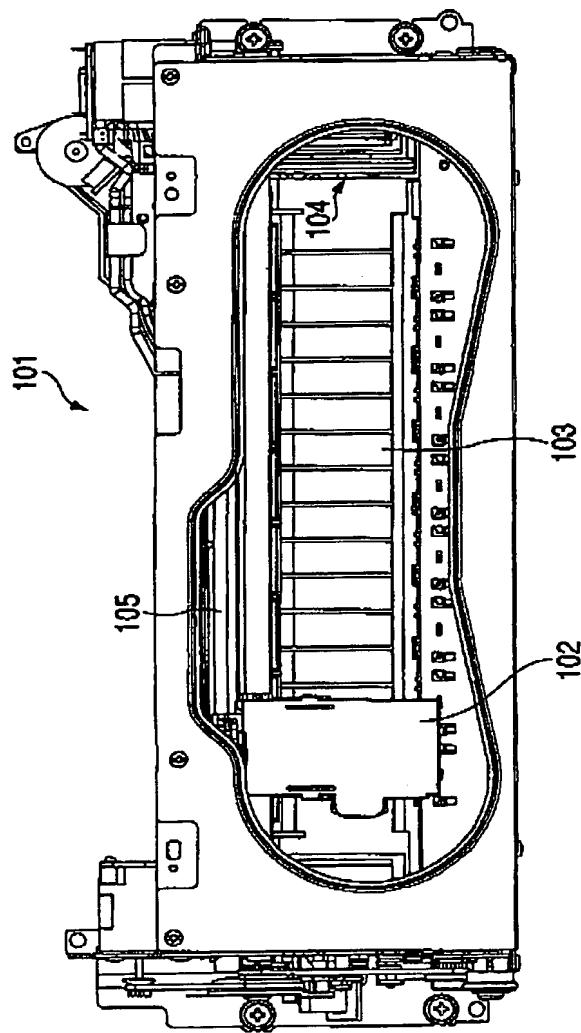


FIG. 2

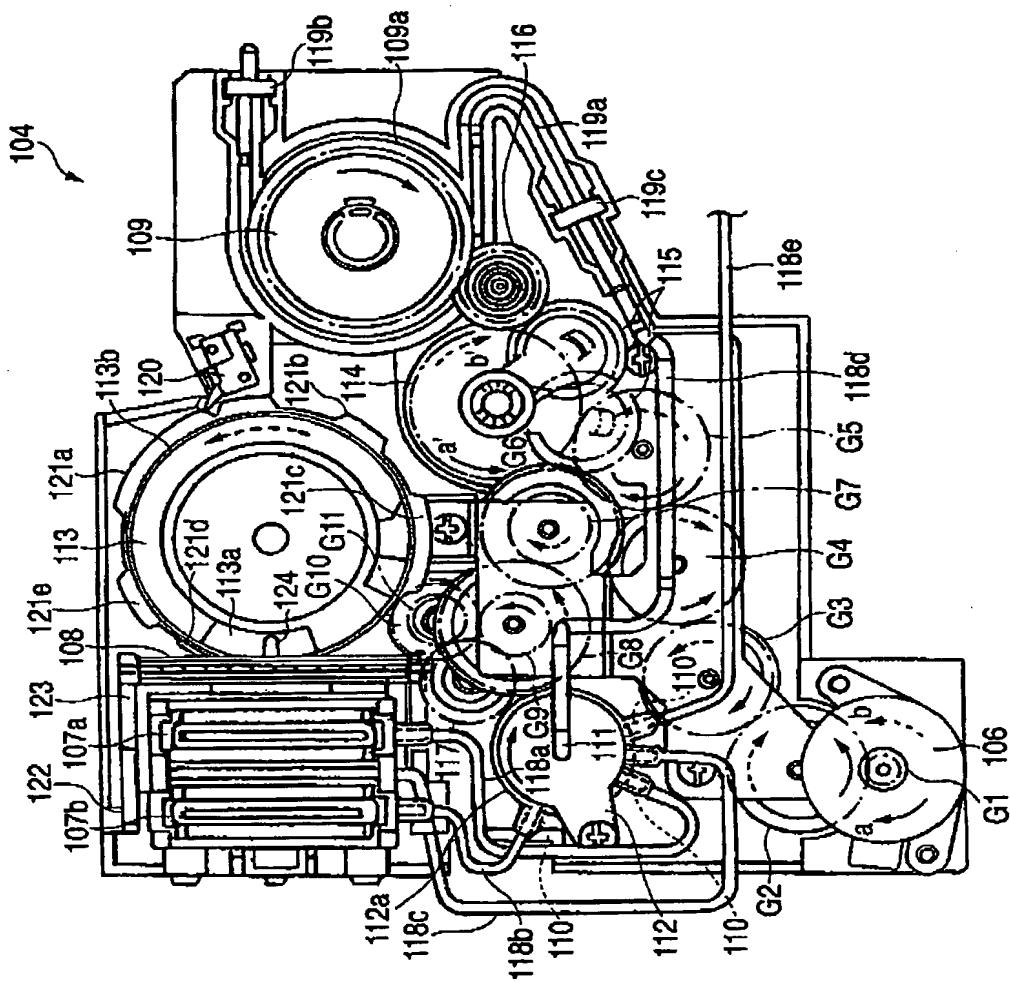


FIG. 3

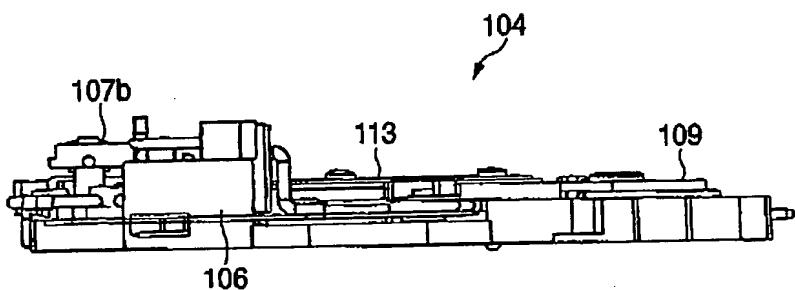


FIG. 4

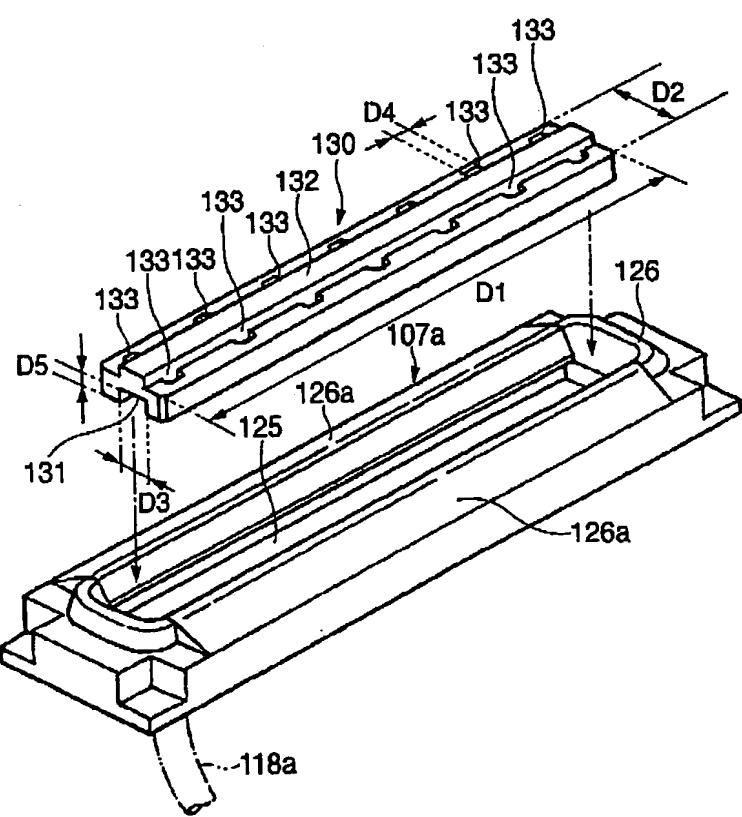


FIG. 5

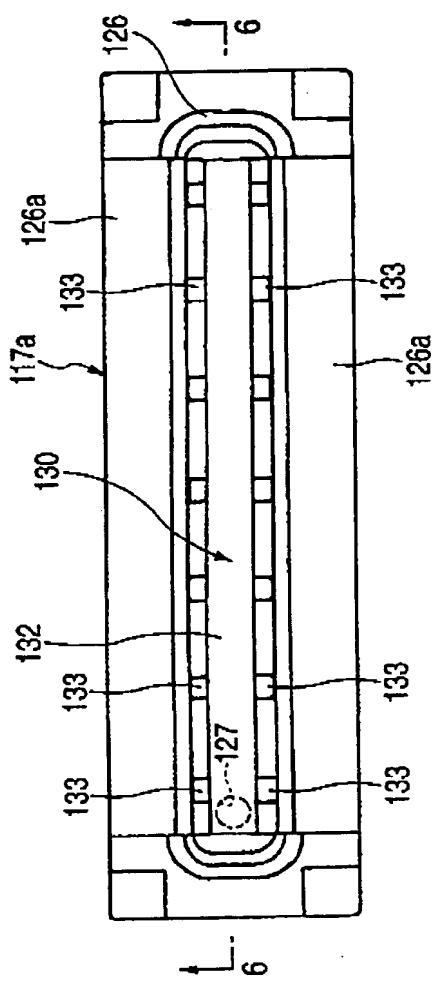


FIG. 6

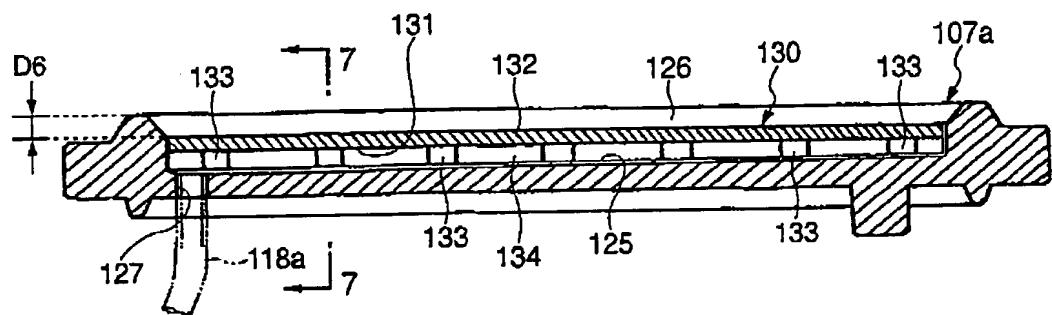


FIG. 7

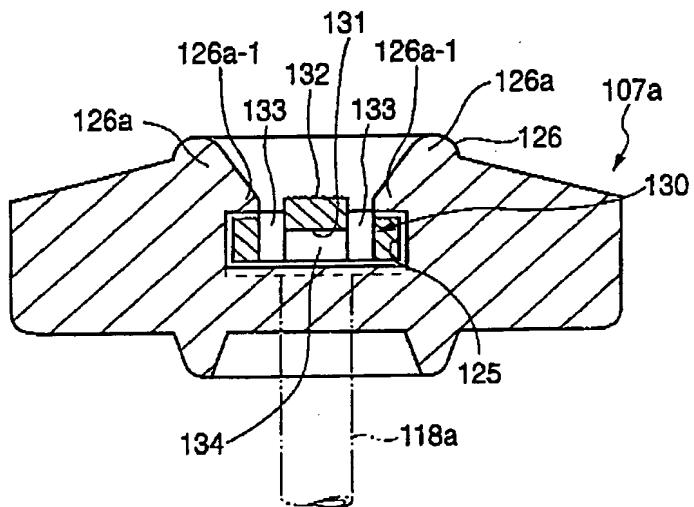


FIG. 8

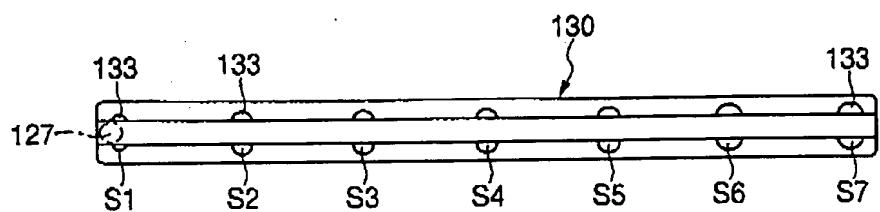


FIG. 9

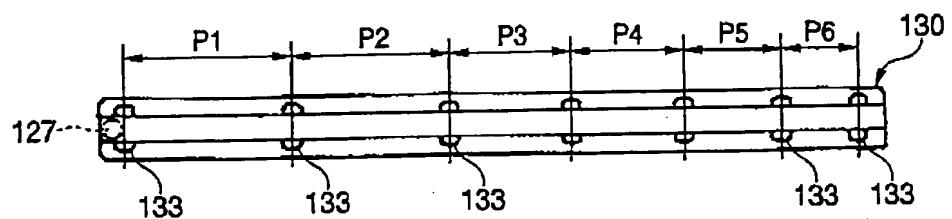


FIG. 10

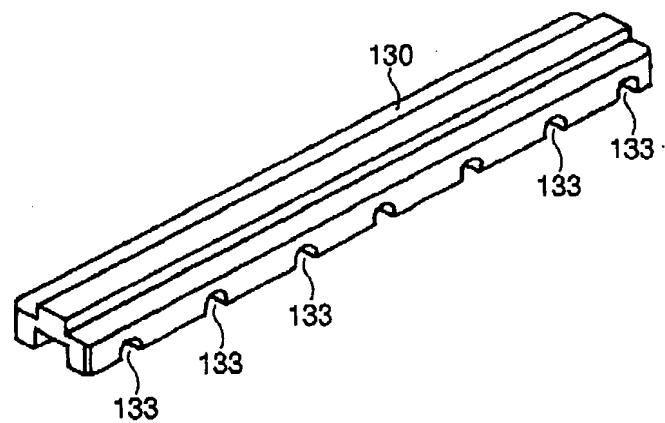


FIG. 11

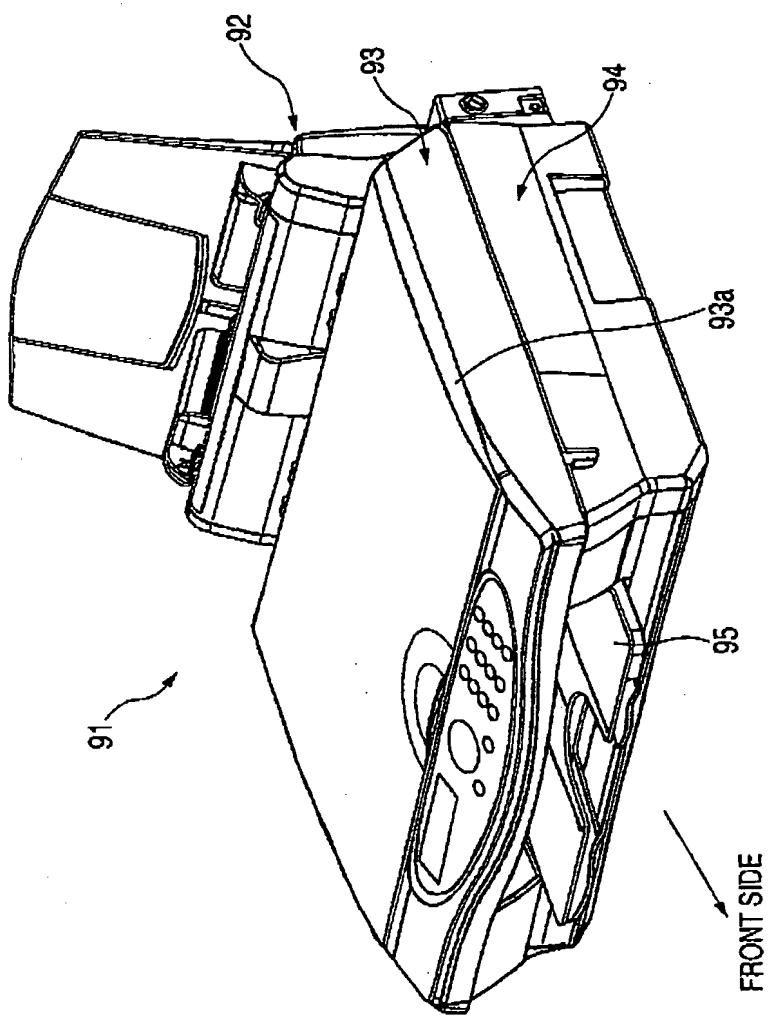
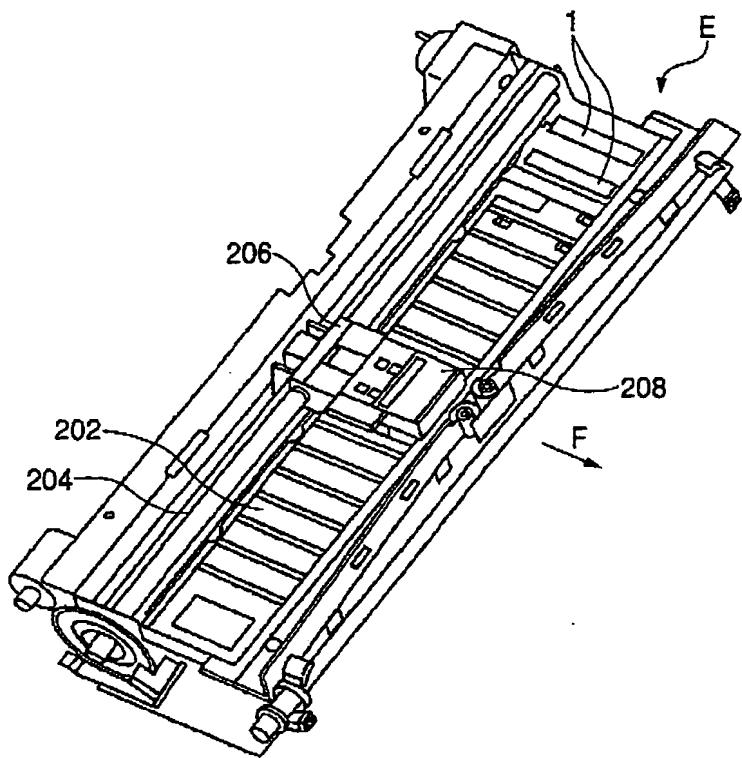


FIG. 12



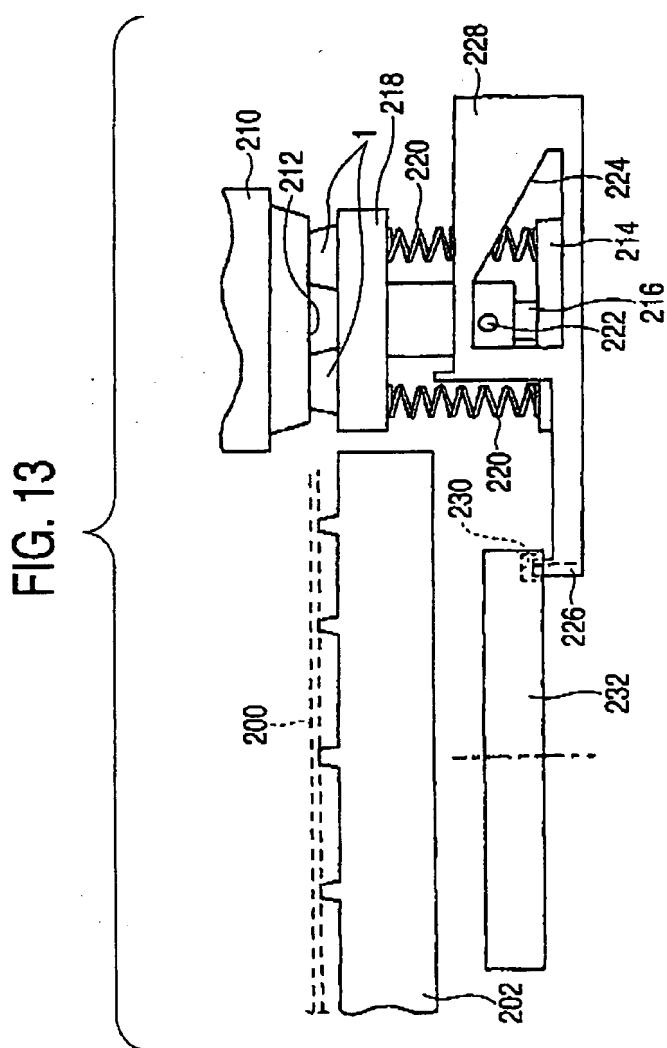


FIG. 14

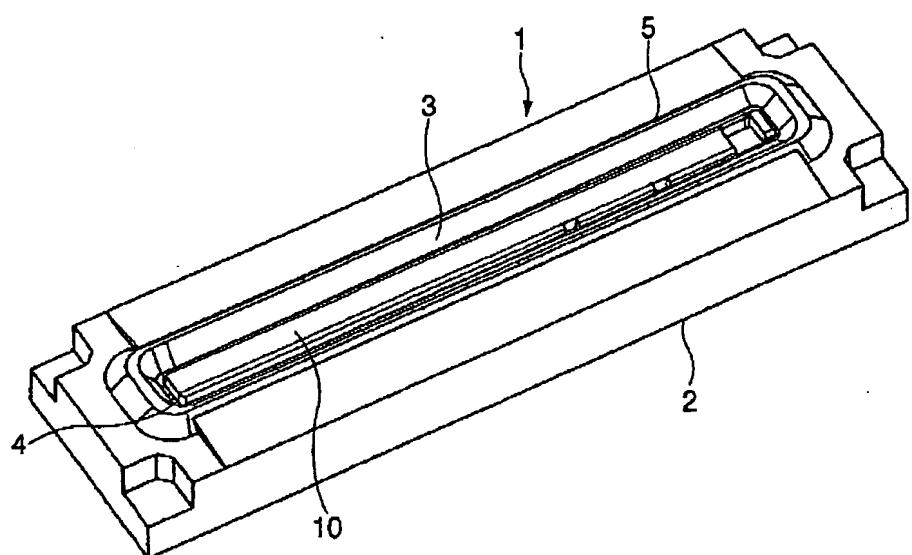


FIG. 15

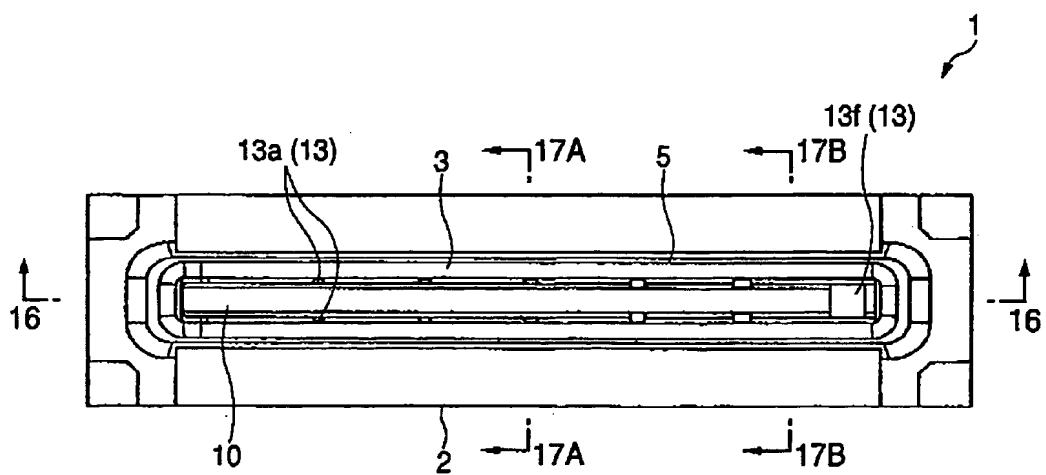


FIG. 16

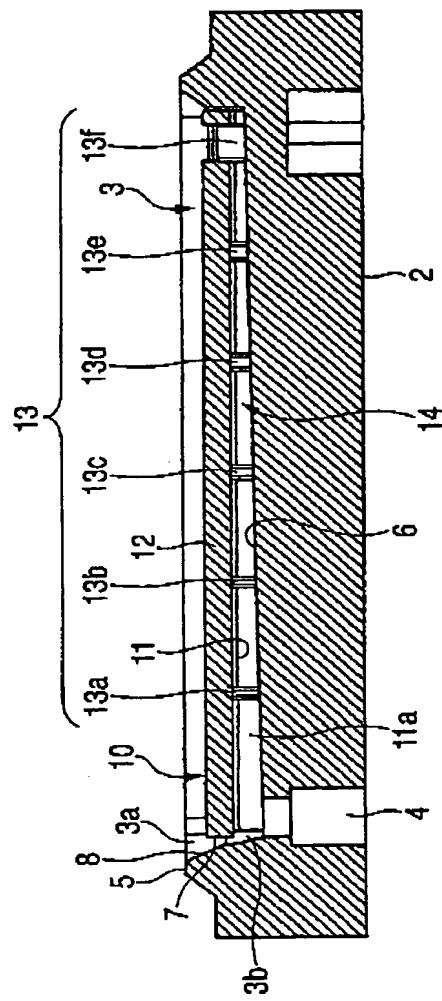


FIG. 17A

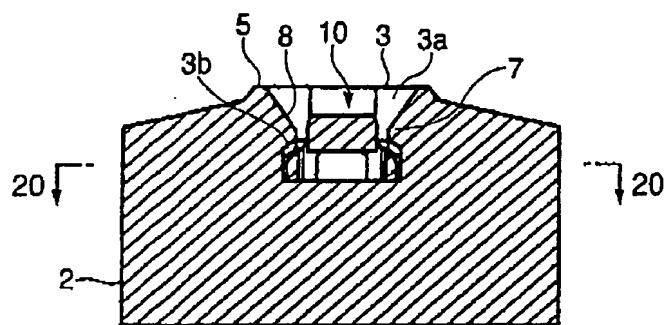


FIG. 17B

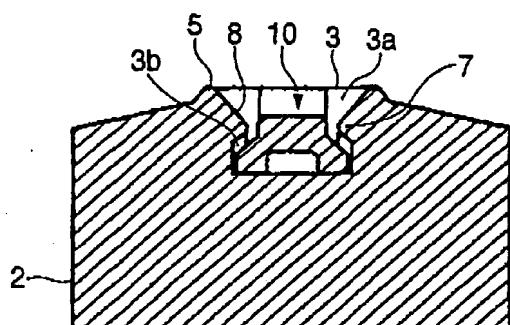


FIG. 18A

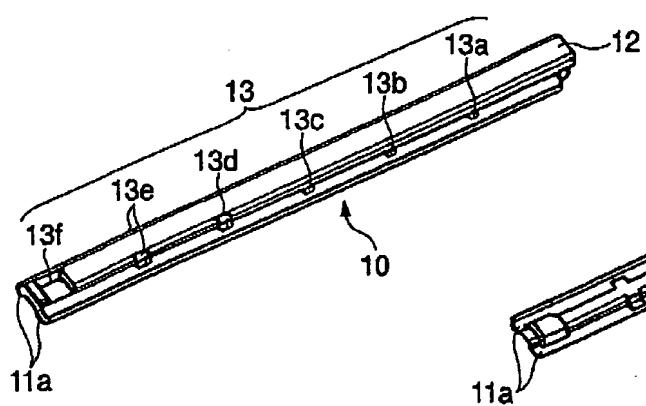
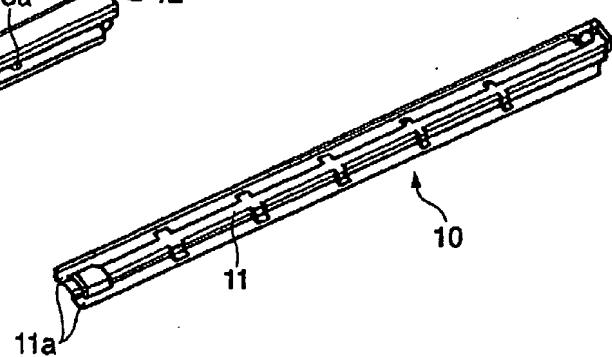


FIG. 18B



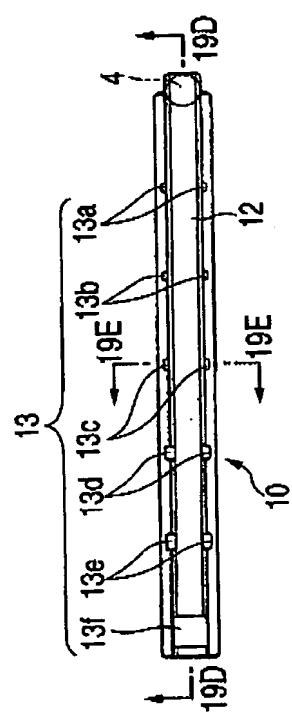


FIG. 19A

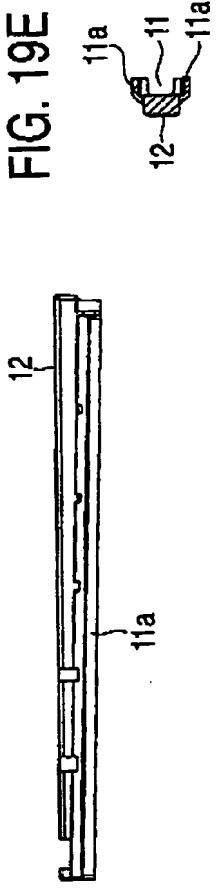


FIG. 19B

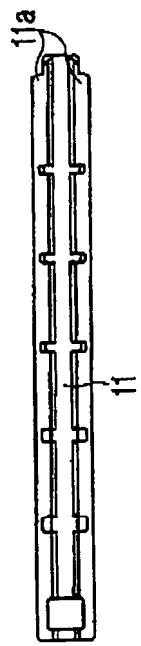


FIG. 19C

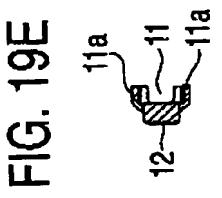


FIG. 19E

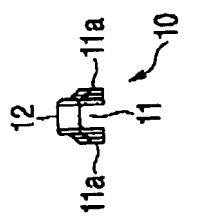


FIG. 19F

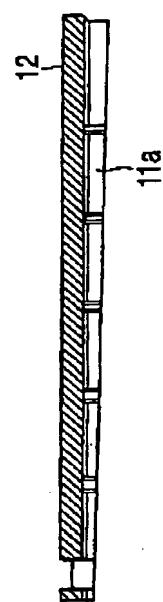


FIG. 19D

FIG. 20

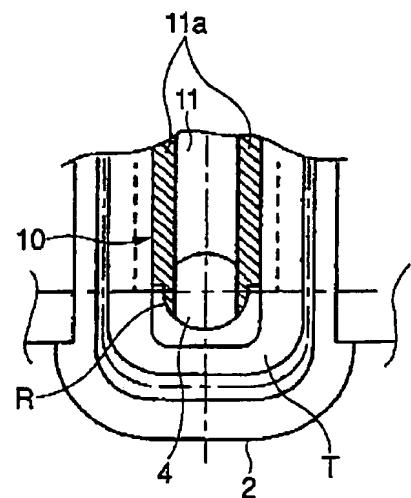


FIG. 21

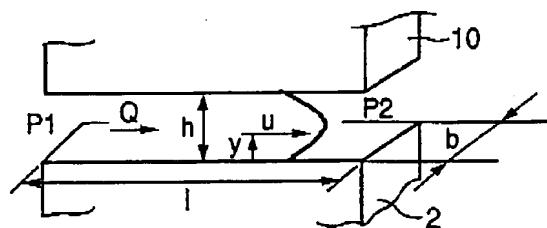


FIG. 22A

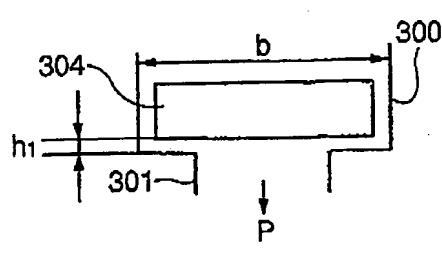


FIG. 22B

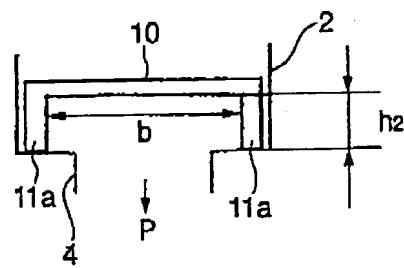


FIG. 23A

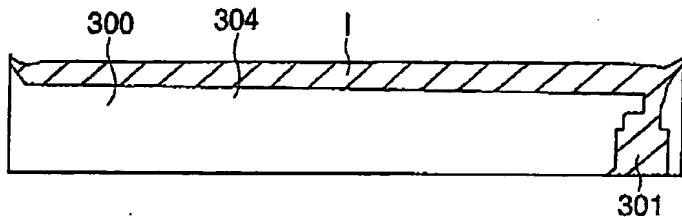


FIG. 23B

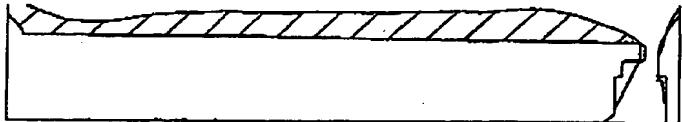


FIG. 23C

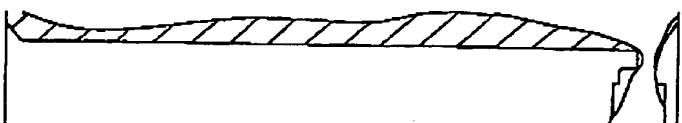


FIG. 23D

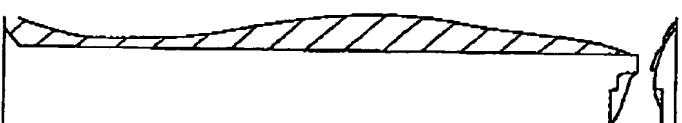


FIG. 23E

## ANALYSIS CONDITIONS

GENERATED NEGATIVE PRESSURE	-50 [kPa]	FLUID VISCOSITY	3.0 [mPa·s]
CHIP HOLE NUMBER	0	FLUID SURFACE TENSION	38.0 [mN/m]
CHIP HOLE POSITION		FLUID DENSITY	1000.0 [kg/m <sup>3</sup> ]
CHIP HOLE DIAMETER			
GAP BETWEEN CHIP AND CAP	0 [mm]		
CHIP THICKNESS	1 [mm]		

FIG. 24A

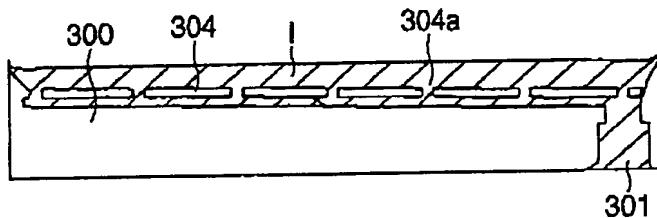


FIG. 24B

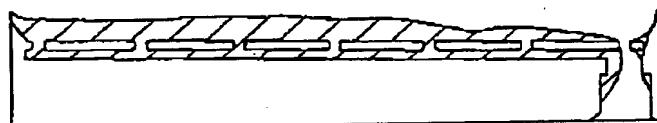


FIG. 24C



FIG. 24D

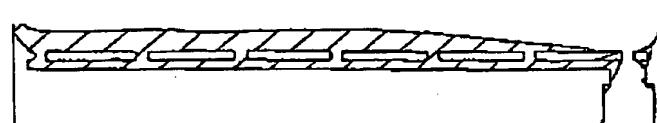


FIG. 24E

## ANALYSIS CONDITIONS

GENERATED NEGATIVE PRESSURE	-50 [kPa]	FLUID VISCOSITY	3.0 [mPa·s]
CHIP HOLE NUMBER	7	FLUID SURFACE TENSION	38.0 [mN/m]
CHIP HOLE CENTER POSITION	0.85 mm FROM RIGHT END SURFACE, AND SUBSEQUENTLY AT AN INTERVAL OF 4.33 mm	FLUID DENSITY	1000.0 [kg/m <sup>3</sup> ]
CHIP HOLE DIAMETER	0.6 [mm] UNIFORMLY		
GAP BETWEEN CHIP AND CAP	0.5 [mm] CONSTANTLY		
CHIP THICKNESS	1 [mm]		

FIG. 25A

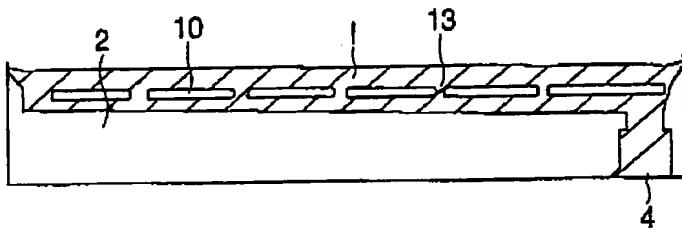


FIG. 25B

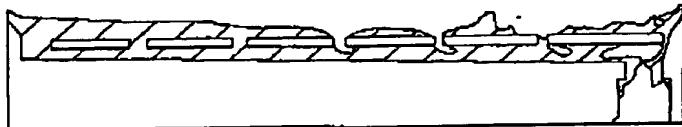


FIG. 25C

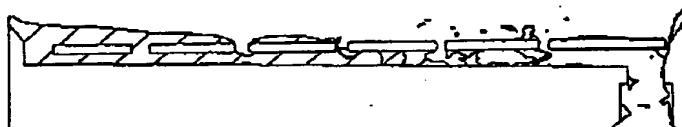


FIG. 25D

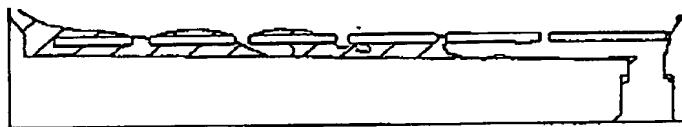


FIG. 25E

## ANALYSIS CONDITIONS

GENERATED NEGATIVE PRESSURE	-50 [kPa]	FLUID VISCOSITY	3.0 [mPa·s]
CHIP HOLE NUMBER	6	FLUID SURFACE TENSION	38.0 [mN/m]
CHIP HOLE CENTER POSITION	5.18 mm FROM RIGHT END SURFACE, AND SUBSEQUENTLY AT AN INTERVAL OF 4.33 mm	FLUID DENSITY	1000.0 [kg/m <sup>3</sup> ]
CHIP HOLE DIAMETER	0.4, 0.4, 0.5, 0.6, 0.7 AND 1.4 [mm] FROM RIGHT		
GAP BETWEEN CHIP AND CAP	0.5 [mm] IN LEFT END, 1 [mm] IN RIGHT END		
CHIP THICKNESS	1 [mm]		

FIG. 26

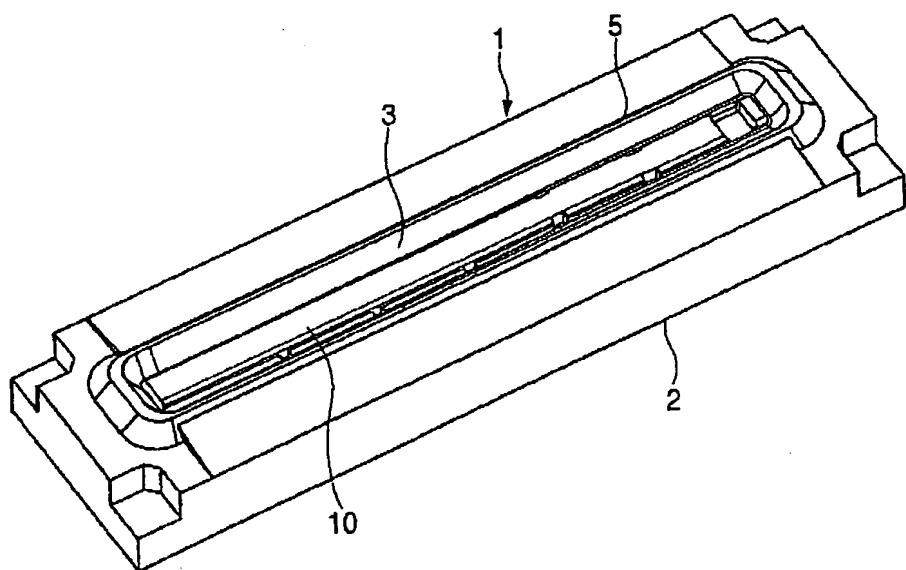


FIG. 27

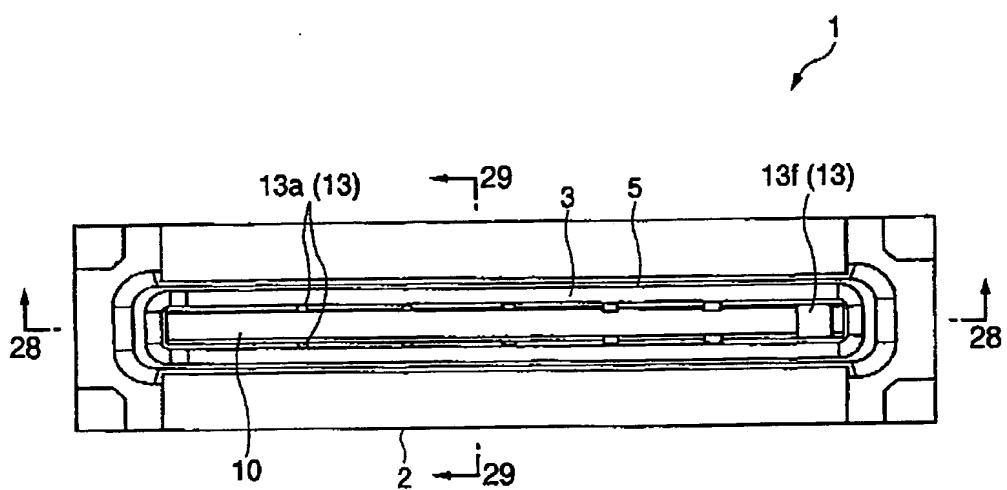


FIG. 28

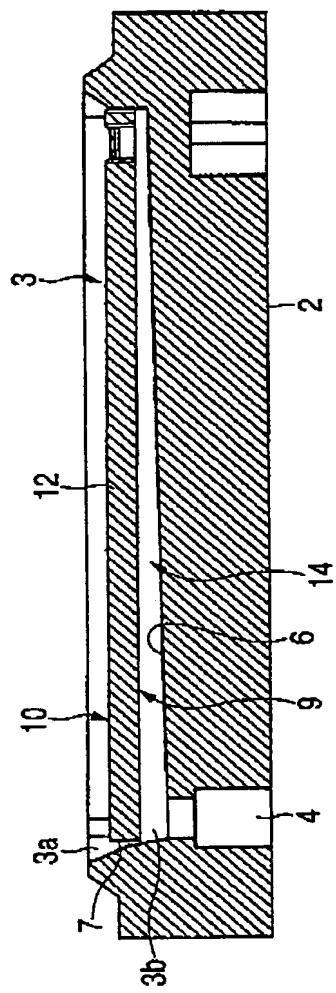


FIG. 29

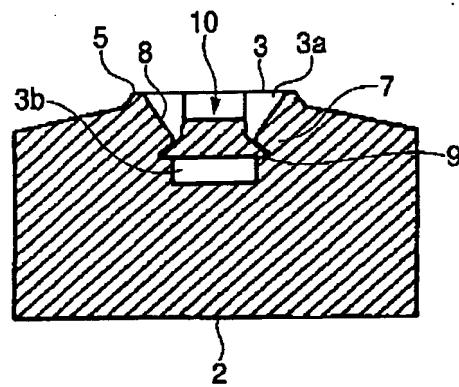


FIG. 30

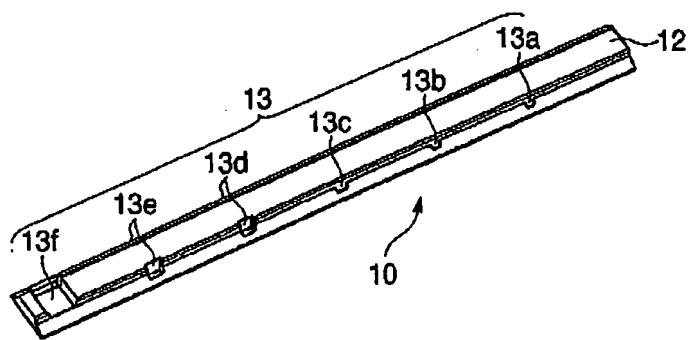


FIG. 31A

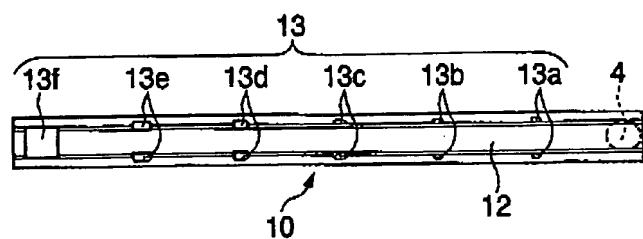


FIG. 31B



FIG. 31C

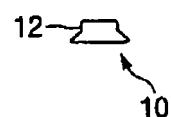


FIG. 32A

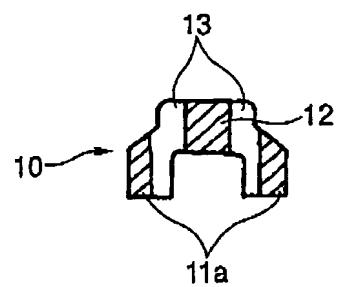


FIG. 32B

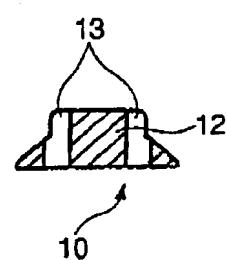


FIG. 33

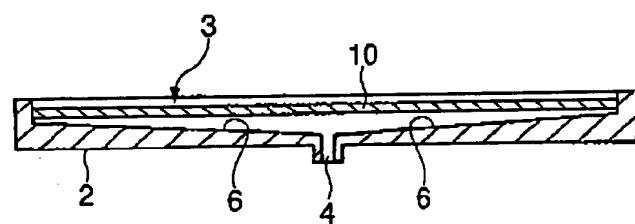


FIG. 34

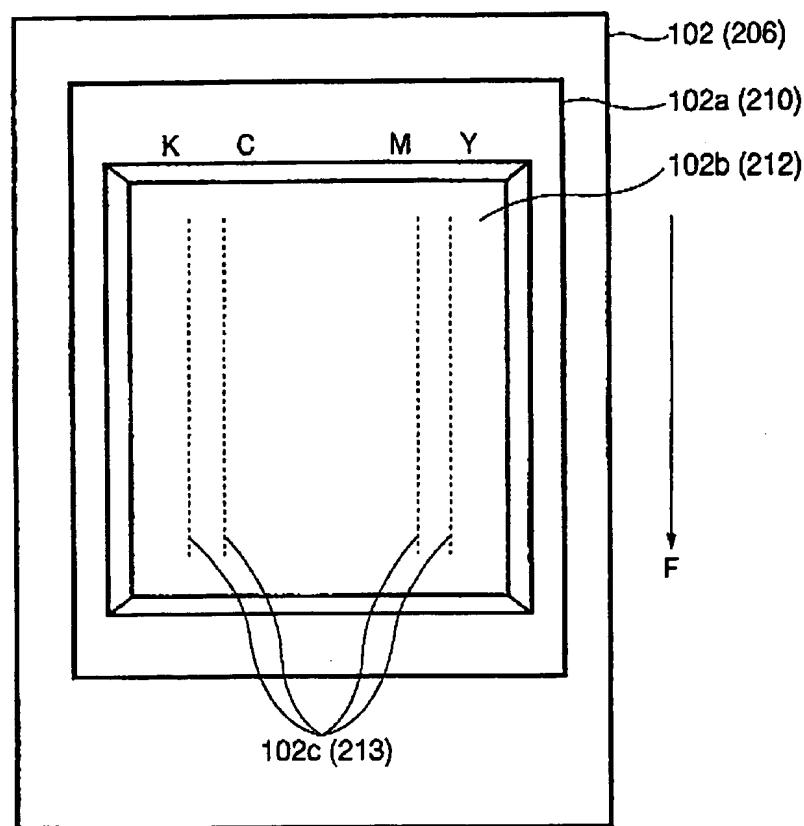


FIG. 35

